

## Electronic Acknowledgement Receipt

<b>EFS ID:</b>	4847040
<b>Application Number:</b>	10551350
<b>International Application Number:</b>	
<b>Confirmation Number:</b>	3238
<b>Title of Invention:</b>	Modified polynucleotides for use in rna interference
<b>First Named Inventor/Applicant Name:</b>	Devin Leake
<b>Customer Number:</b>	22913
<b>Filer:</b>	John C. Stringham/Tyler Eller
<b>Filer Authorized By:</b>	John C. Stringham
<b>Attorney Docket Number:</b>	16542.16.1a.3
<b>Receipt Date:</b>	24-FEB-2009
<b>Filing Date:</b>	19-OCT-2006
<b>Time Stamp:</b>	14:30:35
<b>Application Type:</b>	U.S. National Stage under 35 USC 371

### Payment information:

Submitted with Payment	no
------------------------	----

### File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	NPL Documents	NPL_Newly_Released_SureSilencing_Mouse.pdf	387744 08310569b7ae7f97b5cd1be229d6617f88aea11f	no	7

### Warnings:

### Information:

2	NPL Documents	NPL_Newly_Released_SureSilencing_Human.pdf	204650	no	4
			7315cb45913a87a90ec01aedc15254e999580d35		
Warnings:					
Information:					
3	NPL Documents	NPL_Transfection_Reagent_Selector_Kit_Handbook.pdf	1916392	no	32
			20eef683005fa53bc2f54263195540609d319203		
Warnings:					
Information:					
4	NPL Documents	NPL_The_Rest_is_Silence.pdf	1374997	no	14
			141a71d0423d873cbe942d7388b424d5f80c8c54		
Warnings:					
Information:					
5	NPL Documents	NPL_RNAi_Microarray_Analysis_Cultured_Mammalian.pdf	895447	no	8
			cec434d625f66b27d595ef75b0dc4e80efb62461		
Warnings:					
Information:					
6	NPL Documents	NPL_High-throughput_Gene_Silencing_Using_Cell_Arrays.pdf	597304	no	8
			60e1995d753c73ba4afa26a526d65e5f3a887b3		
Warnings:					
Information:					
7	NPL Documents	NPL_RNA_Interference_Microarrays_High_Throughput.pdf	590833	no	5
			b2987106d9d75e940ce221b54a8dc511e07e3b90		
Warnings:					
Information:					
8	NPL Documents	NPL_High_Throughput_Selection_Effective_RNAi.pdf	806662	no	8
			b9444ca93faccebd163dfd90b9a9b2d7bf976ba6		
Warnings:					
Information:					
9	NPL Documents	NPL_Applications_Transferred_Cell_Microarrays.pdf	523380	no	6
			e1ed2a9e696961e4d277043d8f7b880696bd677d6		
Warnings:					
Information:					
10	NPL Documents	NPL_Role_Atelocollagen-Based_Cell_Transfection.pdf	723975	no	8
			e9780751d87af90b62b1ef0799fea6109bdd6d4f6		
Warnings:					
Information:					

11	NPL Documents	ISR_PCT_US05_42407.pdf	62901	no	1
			08123bf4dd9c6f665c2ab8c1ffd54e8924df9c50		
Warnings:					
Information:					
12	NPL Documents	Prelim_Report_Patentability_US05_42407.pdf	50990	no	1
			22131b3a66dc32aad7398738ee6ea707881afd78		
Warnings:					
Information:					
13	NPL Documents	Written_Opinion_PCT_US05_42407.pdf	242006	no	6
			e68e3e6579c4dca559d280f5a0454688019279be		
Warnings:					
Information:					
14	NPL Documents	ISR_PCT_US05_42403.pdf	95399	no	3
			82ad76c315d45ebb6f4577b9fc750746912c5172		
Warnings:					
Information:					
15	NPL Documents	Prelim_Report_Patentability_US05_42403.pdf	51025	no	1
			8df2e0c0cfb2098145dff9301261259fdaed7d47		
Warnings:					
Information:					
16	NPL Documents	Written_Opinion_PCT_US05_42403.pdf	297187	no	6
			46e341e80e023f876a772c24e254cb48c2ddbb38		
Warnings:					
Information:					
17	NPL Documents	ISR_PCT_US05_42385.pdf	79025	no	2
			b3c4fdbbe329ac3e8a154620fccc21f6aa6ac05d		
Warnings:					
Information:					
18	NPL Documents	Prelim_Report_Patentability_US05_42385.pdf	51096	no	1
			e0ab1079e661ca42d0adf6d33ea38cb03454b4df		
Warnings:					
Information:					
19	NPL Documents	Written_Opinion_PCT_US05_42385.pdf	256588	no	6
			f480a0da574610eac1fd294ffbd18894b4bef37		
Warnings:					
Information:					

20	NPL Documents	ISR_PCT_US2005_042404.pdf	64112	no	1
			e5d60e41f0ed6eb80324f78ace1e6d3fd1f0ead6		
Warnings:					
Information:					
21	NPL Documents	Prelim_Report_Patentability_PCT_US2005_042404.pdf	50621	no	1
			80d0f5cbbfbac19ad82d744a48deab2ed7d1833f		
Warnings:					
Information:					
22	NPL Documents	Written_Opinion_PCT_US2005_042404.pdf	284779	no	8
			94d6e94d49aba0806610d3d8635562cdb7d7206d		
Warnings:					
Information:					
23	NPL Documents	NPL_Tolerance_For_Mutations_Chemical_Modifications.PDF	553185	no	7
			f48f2d6e514f3c110df2bed7295f7d73e95a4d07		
Warnings:					
Information:					
24	NPL Documents	NPL_Functional_Anatomy_dsRNA_Trigger.PDF	928870	no	11
			1103e7ab402a046c5f3b14df981bb64653e45801		
Warnings:					
Information:					
25	NPL Documents	NPL_RNA_Interference_Mediated_by_21-21_nucleotide_RNA.PDF	1548408	no	14
			c78bc5af133fc721f6ce00b36b966525fb93409e		
Warnings:					
Information:					
26	NPL Documents	NPL_Cholesteryl_Conjugated_Oligonucleotides.pdf	383061	no	4
			cc864f9c6dbda12c6fcfb534778cc2365b1dac15		
Warnings:					
Information:					
27	NPL Documents	NPL_Antisense_2-O-Alkyl_Oligoribonucleotides.pdf	916648	no	9
			7f41f51a823a5baec63f08f21162a10891c84e4		
Warnings:					
Information:					
28	NPL Documents	NPL_siRNA_Function_in_RNAi_Chemical_Modification.pdf	1649364	no	16
			56ababfa87bd5f290ce81d9a340d1888a9e5c8eb		
Warnings:					
Information:					

29	NPL Documents	NPL_Enzymatic_Synthesis_2-Modified_Nucleic_Acids.pdf	1523392	no	10
			548880db5606a529f6ab5704ad19ae79f1e5b9c4		
Warnings:					
Information:					
30	NPL Documents	NPL_Structural_Variations_Stabilising_Modifications.pdf	1098547	no	13
			2f82cd7a273e126aa268655f12e0592d37a52476		
Warnings:					
Information:					
31	NPL Documents	NPL_Comparison_Different_Antisense_Strategies.pdf	952997	no	10
			5f58cce20d947fd6e530aac1ab6670d98c9cddaf		
Warnings:					
Information:					
32	NPL Documents	NPL_Similiar_Behavior_Single-Strand_Double_Strand.pdf	686566	no	8
			8999b0d2f46600ea04b8a1cd668d5ecea08654a5		
Warnings:					
Information:					
33	NPL Documents	NPL_Target_Specific_Arrest_mRNA_Translation.pdf	1013593	no	9
			2fd90a32aeb50a8ac4efa4994a8120bac63a5846		
Warnings:					
Information:					
34	NPL Documents	NPL_RNase_H_Responsibile_No-n-Specific_Inhibition.pdf	850115	no	8
			6292f03ce7474064c0cc40b33417a80749c66a7e		
Warnings:					
Information:					
35	NPL Documents	NPL_Optimizing_Delivery_Systems_Chimeric_RNA.pdf	566212	no	7
			54954689d5caca30695cd6b1ec7bb6a48d251a4f		
Warnings:					
Information:					
36	NPL Documents	NPL_Advantages_2-O-Methyl_Oligoribonucleotide.pdf	552836	no	7
			9e250f33bb10fdaf7642e0e9dfc507fbbbac4058		
Warnings:					
Information:					
37	NPL Documents	NPL_Evaluation_2-Modified_Oligonucleotides.pdf	1142986	no	10
			4de14be37e51870195608353e2c6b71c875c2248		
Warnings:					
Information:					

38	NPL Documents	NPL_ATP_Requirements_Small_Interfering_RNA.pdf	1257593	no	14
			e29c500f3eda9615a181d7c38abe839eae d0a37c		
Warnings:					
Information:					
39	NPL Documents	NPL_Use_Modified_Primer_Eliminate_Cycle.pdf	927747	no	8
			6d1e5e7387abd5c9d0392536245e82b7e9 a8ed3e		
Warnings:					
Information:					
40	NPL Documents	NPL_Studies_Interactions_Between_E-Coli.pdf	848228	no	11
			cdb9d861afd479a15dd2e7f9ce1bd560af ed59		
Warnings:					
Information:					
41	NPL Documents	NPL_Sequence_Chemical_Structural_Variation.pdf	2074656	no	24
			3979ac8cbe6141de00d3e4538e1d62011 01032d		
Warnings:					
Information:					
42	NPL Documents	NPL_Functional_Anatomy_siRNA_Mediating_Efficient.pdf	1081464	no	12
			074b2fb78ababc7dd94797ecb1677494385 11acd		
Warnings:					
Information:					
43	NPL Documents	NPL_Expression_Profiling_Reveals_Off-Target.pdf	297517	no	4
			dfab0d86c910193a490403dcb71b39ae27c 5327e		
Warnings:					
Information:					
44	NPL Documents	NPL_Stabilizing_Effects_RNA_2-Substituent.pdf	838021	no	7
			2fd54077cbf8b0b5820bce58b29084d9aab 5c373		
Warnings:					
Information:					
45	NPL Documents	NPL_Dharamacon_Merck_Rosetta_Collaborate_Press_Release.pdf	114012	no	1
			8f8c9a1fa7f56120cf3adedcc57e4613e414e 153		
Warnings:					
Information:					
46	NPL Documents	NPL_Rosetta_siRNA_Experiments_Performed_2007.pdf	831443	no	11
			90f3995a88c1e2007113a7366f6379e4e2bb b122		
Warnings:					
Information:					

47	NPL Documents	NPL_Cholesterol_Connection_in_RNAi.pdf	235745	no	2
			44f3a6fdace69f05b336ed97e7bda243c7abdb21		
Warnings:					
Information:					
48	NPL Documents	NPL_Therapeutic_Silencing_Endogenous_Gene.pdf	582300	no	6
			1591870253eaa3d35e69b57d00698062a126a3ec		
Warnings:					
Information:					
49	NPL Documents	NPL_Synthetic_dsRNA_Dicer_Substrates_Enhance.pdf	561399	no	5
			bf450b93b1474f1c4f75222b1e44c7d4edcc302e		
Warnings:					
Information:					
50	NPL Documents	NPL_Short_Hairpin_RNAs_Induce_Sequence.pdf	831189	no	11
			430ac66b60e2e73a014d4dbad67c572d9bf356fe		
Warnings:					
Information:					
51	NPL Documents	NPL_Human_Dicer_Preferentially_Cleaves_dsRNAs.pdf	1088342	no	11
			33fbf5fdde54b09946ab55b3c46d8477f353066d		
Warnings:					
Information:					
52	NPL Documents	NPL_Enhancement_RNAi_Activity_by_Improved.pdf	477650	no	6
			ffb7e45268f2c094a9c342abba51a347130afff0		
Warnings:					
Information:					
53	NPL Documents	NPL_Structural_Basis_Overhang-Specific_Small.pdf	543904	no	5
			18e70e4ae22f7656ac95dcb6202d2e986d2ebbf3		
Warnings:					
Information:					
54	NPL Documents	NPL_Synthetic_shRNAs_Potential_RNAi_Triggers.pdf	528314	no	5
			fe568d5705eb08df8dd94db80eb52bfd13792cc		
Warnings:					
Information:					
55	NPL Documents	NPL_Both_Natural_Designed_Micro_RNAs.pdf	569759	no	7
			db85078e3fcfe2f6e989a5e464fd9acc9dbf4eef		
Warnings:					
Information:					

56	NPL Documents	NPL_Positional_Effects_Short_I nterfering_RNAs.pdf	1052026 <div>5c95f07ff4d6fd1f840c901c93bfe8d121e789f0</div>	no	11
Warnings:					
Information:					
57	NPL Documents	ISR_PCT_US05_011008.pdf	148619 <div>467ba4ac282c8422a598b7c0f3a20f8f7e161e3a</div>	no	5
Warnings:					
Information:					
58	NPL Documents	Written_Opinion_PCT_US05_0 11008.pdf	225882 <div>b84c62daa62be50a56a107db6344357f7c295086</div>	no	6
Warnings:					
Information:					
59	NPL Documents	ISR_PCT_US05_003365.pdf	234795 <div>71d0b4e0c2def6c9932ff4743cee0e64d7b29c1b</div>	no	7
Warnings:					
Information:					
60	NPL Documents	Written_Opinion_PCT_US05_0 03365.pdf	374299 <div>e6d3a582e2c03a648e54e23e7a94d845fc53a649</div>	no	10
Warnings:					
Information:					
Total Files Size (in bytes):			39698797		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					